

METHODS AND SYSTEMS FOR VALIDATING TRANSLATED GEOMETRY

ABSTRACT

Methods and systems for validating translated geometry. In one embodiment, the methods and systems validate a three-dimensional computer model of a part or assembly translated from a primary CAD system to an alternate CAD system. In this embodiment, a Z score is calculated that represents the accuracy of the translated geometry. Calculation of the Z score requires a geometric property of the master model in the primary CAD system and the same geometric property of the translated model in the alternate CAD system. In one embodiment, the geometric property is the volume of the respective models. In another embodiment, the geometric property is the area of the respective models. Once the Z score has been calculated, it is compared to a pre-selected pass/fail criteria to determine whether the translated geometry is sufficiently accurate to use for manufacturing the corresponding part or assembly.